

ABSTRACT

A process is disclosed for recycling carbon dioxide emissions from a fossil-fuel power plant into useful carbonated species. The process primarily comprises the steps of: a) burning the fossil fuel, thereby generating heat and a hot exhaust gas containing CO₂; and b) converting the heat into energy. The process is characterized in that it further comprises the steps of: c) cooling the exhaust gas; and d) biologically transforming the CO₂ contained in the cooled exhaust gas into carbonated species, thereby obtaining a low CO₂ exhaust gas and producing useful carbonated species. The low CO₂ exhaust gas obtained in step d) can be released in the atmosphere without increasing the problem of greenhouse effect.